

**A. CLASSIFICATION OF SUBJECT MATTER**  
**IPC 7 C12Q1/68**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
**IPC 7 C12Q**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ**

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>CARROLL N M ET AL: "Detection of and discrimination between gram-positive and gram-negative bacteria in intraocular samples by using nested PCR"          JOURNAL OF CLINICAL MICROBIOLOGY,          WASHINGTON, DC, US,          vol. 38, no. 5, May 2000 (2000-05), pages          1753-1757, XP002308232          ISSN: 0095-1137          abstract          page 1754, column 1, paragraph 5; figure          1; table 2</p> <p>-----</p> <p style="text-align: center;">-/-</p>	1-3,8

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

**13 July 2005**

Date of mailing of the international search report

**07.10.2005**

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KLASCHIK SVEN ET AL: "Real-time PCR for detection and differentiation of gram-positive and gram-negative bacteria." JOURNAL OF CLINICAL MICROBIOLOGY. NOV 2002, vol. 40, no. 11, November 2002 (2002-11), pages 4304-4307, XP002334305 ISSN: 0095-1137 cited in the application abstract page 4304, column 1, paragraph 4 - column 2, paragraph 4 page 4305, column 1, paragraph 3 - column 2 page 4304, column 1, paragraph 3 - paragraph 4 page 4304, column 2, paragraph 3 - paragraph 4 page 4305, column 2, paragraph 2 -----	1-3,8
X	WO 90/11370 A (HOLLAND BIOTECHNOLOGY BV) 4 October 1990 (1990-10-04) abstract page 3, paragraph 2 - page 8, paragraph 1; claims 1-8 -----	1,2,8
X	US 6 617 156 B1 (DOUCETTE-STAMM LYNN A ET AL) 9 September 2003 (2003-09-09) abstract column 19, paragraph 3 - column 20, paragraph 1 column 25, paragraph 4 - paragraph 6 contig 547: SEQ ID NO 1419: purA gene column 27, paragraph 2 - paragraph 3; tables 2,3 -----	9,11, 13-16
X	LEEUWEN VAN W B ET AL: "Multilocus sequence typing of <i>Staphylococcus aureus</i> with DNA array technology" JOURNAL OF CLINICAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 41, no. 7, July 2003 (2003-07), pages 3323-3326, XP002280375 ISSN: 0095-1137 abstract page 3323, column 1, paragraph 3 - page 3324, column 1, paragraph 1 page 3325, column 1, paragraph 2 - column 2, paragraph 2; tables 1-3 -----	1,2,8
X	WO 98/20160 A (E.I. DU PONT DE NEMOURS AND COMPANY; HAZEL, JAMES, WILLIAM; JENSEN, MA) 14 May 1998 (1998-05-14) the whole document -----	1,2,8

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 9011370	A 04-10-1990	AU 5351790 A		22-10-1990
		EP 0464123 A1		08-01-1992
		JP 5504672 T		22-07-1993
		NL 8900670 A		16-10-1990
US 6617156	B1 09-09-2003	NONE		
WO 9820160	A 14-05-1998	AU 5100798 A		29-05-1998
		DE 69722028 D1		18-06-2003
		DE 69722028 T2		18-03-2004
		EP 0948643 A1		13-10-1999

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-5, 8, 9, 11, 13-16 (in part)

## Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: claims 1-5,8,9,11,13-16 (in part)

Assay, its use, a primer pair, a nucleic acid probe, a composition, a kit and a DNA chip for detecting and identifying one or more microorganisms in a sample involving the molecular marker PurA (marker I) as identified in Table 1 of the application

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Invention 2-4: claims 1-5,8,9,11,13-16 (in part)

Assay, its use, a primer pair, a nucleic acid probe, a composition, a kit and a DNA chip for detecting and identifying one or more microorganisms in a sample involving the molecular marker identified by markers II-IV as identified in Table 1

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Invention 5-8: claims 1-3,6-8,10,12-16 (in part)

Assay, its use, a primer pair, a nucleic acid probe, a composition, a kit and a DNA chip for detecting and identifying one or more microorganisms in a sample involving the molecular marker identified by markers V-VIII as identified in Table 1

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